marantz®

Model CD-7 User Guide

Compact Disc Player

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

COMPACT disc DIGITAL AUDIO

ENGLISH

WARRANTY
For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT
Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes of when corresponding with Marantz.

IMPORTANT
When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY
This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE
Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT
L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieur sûr pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT
Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de lachat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GRANTIE
Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTUNG GUT AUF
Die Quittung dient Ihnen als bleibende Unterlage für Ihre wertvolle Anschaffung Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen angaben für Versicherungszwecke oder bei korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!
Bei Garantiefrangen muß der Kunde eine Kaufunterlage mit kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GRANTIE
Voor inlichtingen omtrent garantie dient u zich te wenden tot uw plaatselijke Marantz-handelaar.

UW KWITANTIE, KASSABON E.D. BEWAREN
Uw Kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt. verwijzing, b.v. in verband met verzekering of bij correspondentie met Marantz.

BELANGRIJK
Bij een evt. beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur is zijn voldoende bewijs.

ITALIANO

CONDIZIONI DI GARANZIA
L'apparecchio e' garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sara' prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non passano riferirsi a difetti di funzionamento dell'apparecchio.
Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilita' per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 – numero verde).

PORTUGUÊS

GARANTIA
Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA
O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE
Quando procurar assisténcia técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

ESPAÑOL

GARANTÍA
Para información sobre las Condiciones de Garantía, sírvase consultar el Certificado que encontará en le interior del embalaje del equipo.

CONSERVE EL COMPROBANTE DE LA COMPRA
La factura es el comprobante de la adquisición de un producto valioso. Consérvela en lugar seguro para poder consultarla en caso necesario.

IMPORTANTE
Para disponer de servicios cubiertos por la garantía, el usuario deberá acreditar la fecha y el lugar de adquisición del equipo. La factura o recibo de la compra constituyen un comprobante válido a tal efecto.

SVENSKA

GARANTI
Angående garanti,kontakta din lokala Marantz handlare.

SPAR KVITTOT
Kvittot är din InköpshandlIng över Inköp av en värdefull vara.Det ska placeras på ett säkert ställe och hänvlsas till vid försäkringsfrágor eller vid korrespondens med Marantz.

VIKTIGT
När garantiservice áberopas är det konsumentens ansver att visa datum för inköp.Ditt kvitto eller din faktura är ett tillfredsställande bevis.

DANSK

GARANTI
Henvend dem til Deres MARANTZ-forhandler angående inrformation om garantien.

GEM DERES KVITTERING
Deres købskvittering er Deres varige bevis på et dyrt køb. Den bør gemmes godt og anvendes som bevis, hvis De vil tegne en forsikring, eller hvis De kommunikerer med Marantz.

VIGTIGT
Det påhviler forbrugeren at skaffe bevis for købet og købsdatoen, hvis han eller hun ønsker garantiservice. Deres købskvittering eller faktura er et fuldgyldigt bevis herpå.

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ENGLISH:
CAUTION – USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

FINNISH:
VAROITUS! Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävuälle näkymättömälle lasersäteilylle.

SWEDISH:
VARNING! Om apparaten används påannat sätt än vad som beskrivs 1 denna bruksanvisning kan användaren utsättas för osynlig laserstrålning som overskrider gränsen för laserklass 1 .

WARNINGS FOR LASER RADIATION

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.

DANGER : INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINANAKYMÄTTÖMÄALLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

VARNING! : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRALEN.

FOREWORD

This section must be read carefully before any connection is made to the mains supply.

English

WARNINGS

Do not expose the equipment to rain or moisture.

Do not remove the cover from the equipment.

Do not insert anything into the equipment through the ventilation holes.

Do not handle the mains lead with wet hands.

CE marking (only /02 version)

CE This product is in conformity with the EMC directive and low-voltage directive.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product complies with the household power and safety requirements in your area.
"/02" Version product can be powered by 230 V AC only.

IMPORTANT: (FOR UK version only)

This apparatus is fitted with an approved moulded 13 Amp plug. To change a fuse in this type of plug proceed as follows:

1. Remove fuse cover and fuse.
2. Fix new fuse which should be a BS1362 5A, A.S.T.A. or BSI approved type.
3. Refit the fuse cover.

If the fitted plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place.
If the mains plug contains a fuse, this should have a value of 5A. If a plug without a fuse is used, the fuse at the distribution board should not be greater than 5A.

NOTE : The severed plug must be destroyed to avoid a possible shock hazard should it be inserted into a 13A socket elsewhere.

HOW TO CONNECT A PLUG

The wires in the mains lead are coloured in accordance with the following code:
BLUE—"NEUTRAL" ("N")
BROWN—"LIVE" ("L")

1. The BLUE wire must be connected to the terminal which is marked with the letter "N" or coloured BLACK.
2. The BROWN wire must be connected to the terminal which is marked with the letter "L" or coloured RED.
3. Do not connect either wires to the earth terminal in the plug which is marked by the letter "E" or by the safety earth symbol ⏚ or coloured green or green-and-yellow.

Before replacing the plug cover, make certain that the cord grip is clamped over the sheath of the lead — not simply over the two wires.

COPYRIGHT

Recording and playback of some material may require permission. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963, and 1972
- Any subsequent statutory enactments and orders

ABOUT THIS USER'S GUIDE

Refer to the figures on the pages at the back of this user's guide. The callout numbers on the figures correspond to those found in the text.

- Some of the operations described in this user's guide can only be operated from the remote control unit. In the description of controls, the names of the buttons which are available on both the main unit and the remote control unit are enclosed in [ ], and the names of the buttons which are available only on the remote control unit are enclosed in ( ).

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When installing the equipment ensure that:

- the ventilation holes are not covered.
- air is allowed to circulate freely around the equipment.
- it is placed on a vibration-free surface.
- it will not be exposed to excessive heat, cold, moisture or dust.
- it will not be exposed to direct sunlight.
- it will not be exposed to electrostatic discharges.

In addition, never place heavy objects on the equipment.

If a foreign object or water does enter the equipment, contact your nearest dealer or service center.

Do not pull out the plug by pulling on the mains lead; grasp the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

COMPACT DISCS

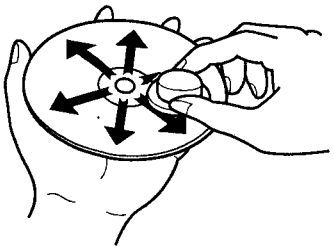
The glossy side shining like a rainbow is the front side of the disc, and the side on which the label is printed is the back.
Unlike conventional turntables for playing analog discs, the CD-7 Compact Disc Player reads the information recorded on the disc from underneath without contacting it using a beam of laser light. Therefore, the performance of a compact disc will not degrade like conventional analog records.

Handle discs carefully so as not to damage or scratch the front side.

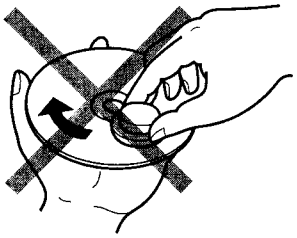
To protect the disc, avoid placing it in the following locations:

- In direct sunlight or near a source of heat like a heater.
- In a place which is damp or dirty.
- In a place which could be exposed to rain, such as near a window.

Always keep the disc surface clean.
Up to six billion data units are recorded on the front side of the disc. When cleaning the disc surface, always be sure to use a special compact disc cleaner and wipe as shown below.

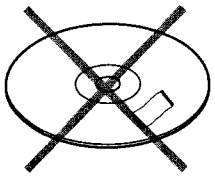


Wipe in a radial direction.

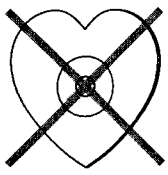


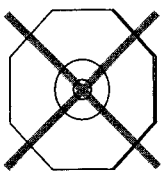
Do not wipe in circumferential direction.

- Do not use conventional record cleaner for analog records, as this will adversely affect the disc surface.
  Store discs properly by placing them in their disc cases.
- Do not attach a piece of paper or sticker on the label side of disc.
  When a disc has a piece of plastic tape or rental CD label with paste protruded from the edge or when a disc has a trace of such a sticky object, do not attempt to play the disc. If such a disc is played on the CD player, impossibility of taking out the disc or other malfunction may result.



- Do not use a disc with a special shape.
  Do not attempt to play a disc with a special shape such as a heart-shaped disc or octagonal disc. Otherwise the equipment malfunction may result.





Playing CD-RW discs

This unit can play back the CD-RW (ReWritable) discs as well as ordinary music CD and CD-R (Recordable) discs.

* The CD-R and CD-RW discs should contain properly-recorded TOC information so that they can be played back. With the CD recorder system, writing the TOC information in a disc is referred to as finalizing the disc. A disc cannot be recognized as a CD disc and played back unless it has been finalized properly. For details, please read the instruction manual provided with a CD recorder.
* TOC stands for Table Of Contents and contains information such as the total number of tracks and total playing time of the disc.
* This unit can play only the discs recorded in the CD-DA format designed for music reproduction. Do not attempt to play a disc containing other data, such as a CD-ROM for PCs, on this unit.
* As the playback of a CD-RW disc necessitates partial change of the player setup, it may take longer time for reading the TOC information than when a music CD or CD-R disc is played.

English

English

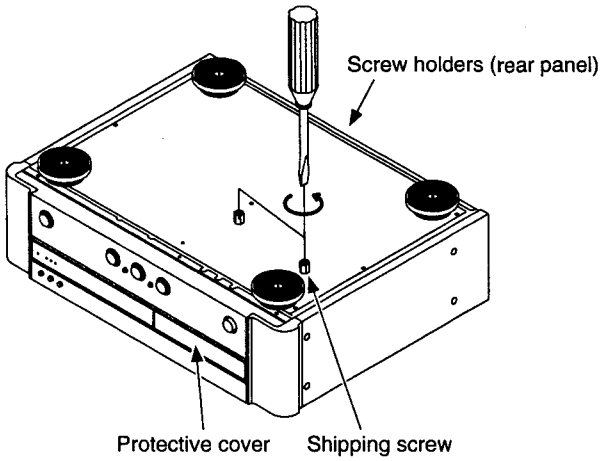
SHIPPING SCREWS

After unpacking

The CD-7 is equipped with a high precision pickup mechanism. This mechanism is secured with two screws to protect it from damage during shipping. After unpacking the CD-7, be sure to remove these two screws and the protective cover mounted on the front of the tray, and attach the screws to the screw holders on the rear panel. The screws and the protective cover will be needed when moving the CD-7 in the future, so be careful not to lose them.

NOTE

Operating the CD-7 with the shipping screws installed may damage it. Be sure to remove the shipping screws before turning on the power.
Also be sure to remove the protective cover before using the CD-7.



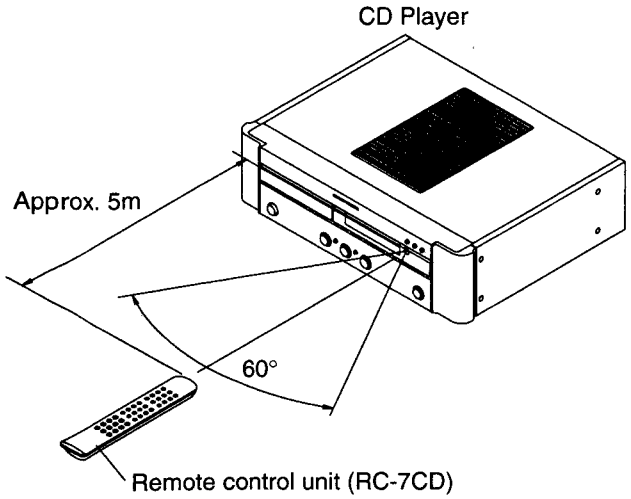
Use a screwdriver to remove the two shipping screws.

USING THE REMOTE CONTROL UNIT

1. Remote control

Operate the remote control unit (RC-7CD) within a distance of approx. 5 m from the infrared signal reception window (remote sensor) on the front of the CD player.
Remote control operation may not be possible if the remote control unit's transmitter is not pointing in the direction of the remote sensor or if there is an obstruction between the transmitter and the remote sensor.

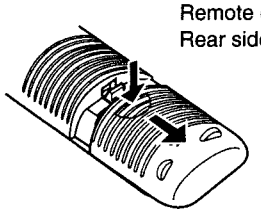
Remote control operating range



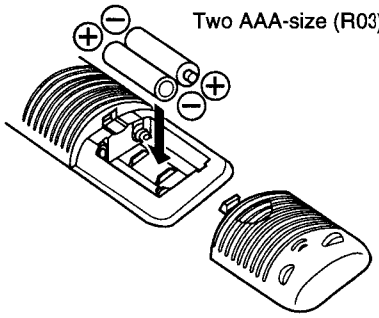
2. Loading batteries

Batteries in this remote control unit have a life of approximately 1 year under normal operating conditions. If the remote control unit is not going to be used for an extended period of time, remove the batteries. Also, if you notice that the batteries are starting to run down, replace them as soon as possible.

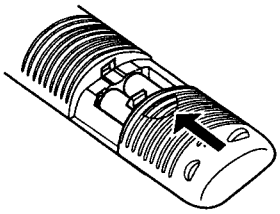
① Remove the battery cover.



② Insert the batteries with correct +/– orientation.



③ Close the battery cover until it clicks shut.



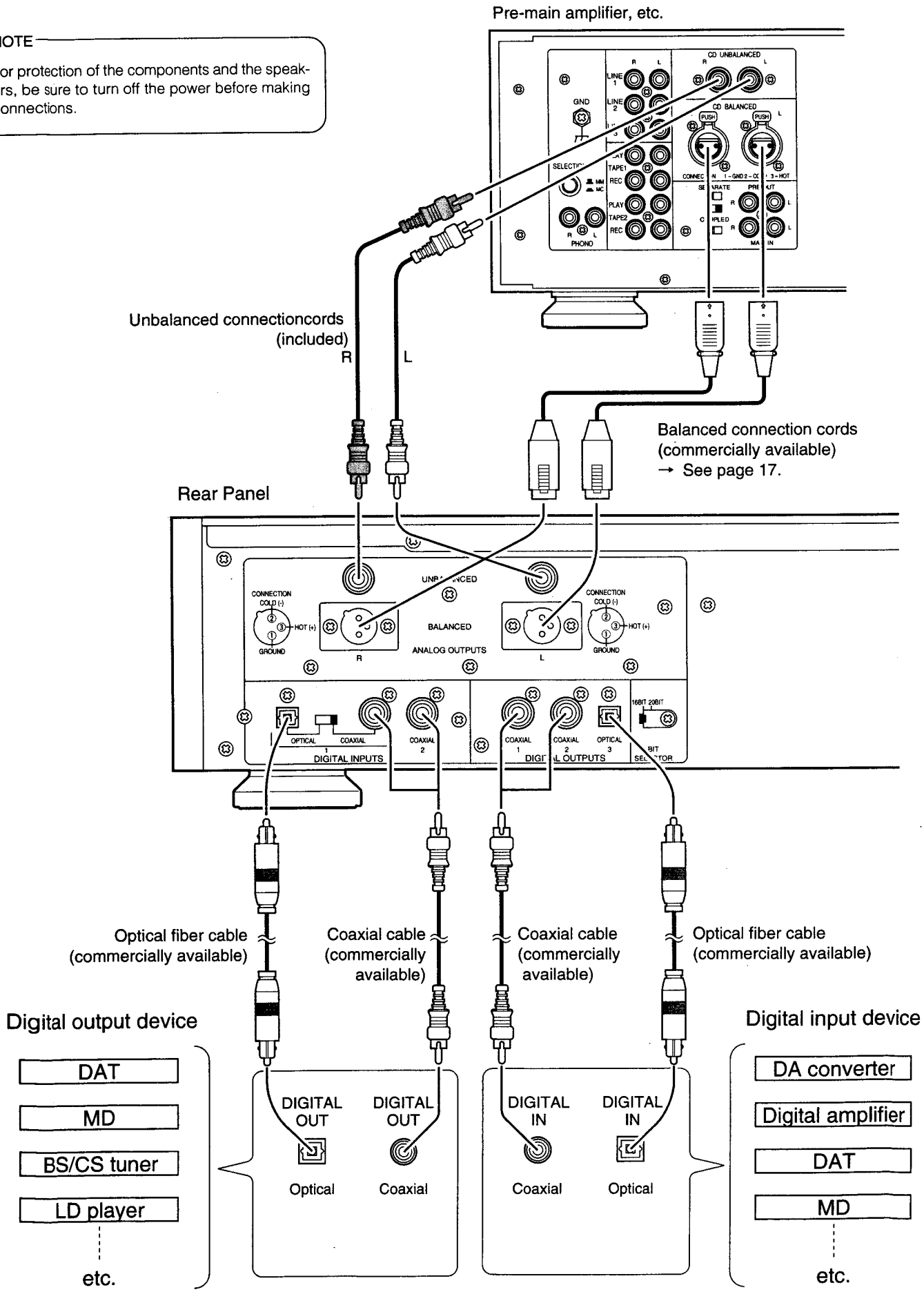
OPERATING PRECAUTIONS

- In the winter you may notice that condensation forms on the window of a well-heated room.
  Condensation may also occur inside the CD player in the following situations:
- When the listening room is first heated.
- When the humidity in the room is high.
- When the unit is moved from a cold environment to a warm room.
- If condensation occurs, the number of tracks cannot be read and the CD player may not function properly. If this happens, leave the power ON and wait for about 30 minutes before operating the unit.
- The CD player may interfere with the reception of your tuner or TV set. If this occurs, place the CD player farther away from the tuner or TV.
- The CD player features very little noise compared to analog records, and the noise before actual playback begins is also inaudible. Therefore, be careful not to set the volume control of the amplifier too high, otherwise other audio components such as the speakers may be damaged when actual playback starts.

CONNECTIONS

NOTE

For protection of the components and the speakers, be sure to turn off the power before making connections.



CONTROLS, CONNECTIONS AND INDICATORS

English

FRONT PANELS

[1] POWER switch
Press to switch power ON, and press again to switch OFF.

[2] DISC TRAY
Place a disc with the label side up.

[3] [▶PLAY] button
Press to start playback.

[4] [■STOP] button
Press to stop playback. This button is also used for deleting a program.

[5] [IIPAUSE] button
Press to interrupt playback temporarily. The Time indicator blinks during pause. When pressed again, the Time indicator lights and playback resumes from the same position.

[6] [I◀◀], [▶▶I] (Track Previous/Next) buttons
The disc skips forward a number of tracks equal to the number of times the [▶▶I] button is pressed, or skips backward a number of tracks equal to the number of times the [I◀◀] button is pressed.

[7] Display
Shows information such as the track number, playing time and current operation mode.

① **TRACK indicator**
Displays the number of tracks on a Compact Disc or the track number being played or programmed.

② **INDEX indicator**
Displays the number which varies when indicers recorded in tracks are detected.

③ **TIME indicator**
Displays the time information including the total play time of a Compact Disc, the elapsed play time of the track being played or the total remaining time of a Compact Disc or program.

④ **ERROR indicator**
Lights up temporarily to indicate erroneous operation or programming error.

⑤ **SHUFFLE indicator**
Lights during the shuffle play which is started by pressing the (RANDOM/SHUFFLE) button.

⑥ **RECALL indicator**
Light during the program check which is started by pressing the RECALL button.

⑦ **REPEAT indicator**
Lights or blinks during the repeat play operation which is started by pressing the (REPEAT) button.

⑧ **A-B indicator**
Blinks or lights according to the continuous loop play (A-B repeat) operation.

⑨ **AMS indicator**
Lights to indicate the AMS operation.

⑩ **DISC TRACK indicator**
Display the number of tracks on a Compact Disc.

⑪ **REMOTE CONTROL indicator**
Lights when a signal from the remote commander is received.

⑫ **FILTER indicator**
Indicates the digital filter position.

⑬ **NOISE SHAPER indicator**
Noise shaper

[8] IR SENSOR
The infrared remote control signal is received through this window. Be sure to operate the remote commander properly by pointing its signal transmitter accurately to this window.

[9] [▲OPEN/CLOSE] button
Pressing the [▲OPEN/CLOSE] button opens the disc tray. Place a compact disc on the tray with the label side facing up.
pressing the button again close the disc tray.

[10] [FILTER] button
Press this to change the digital filter settings.
(See page 17.)

[11] [NOISE SHPER] Button
Press this to turn the noise shaper on and off.
(See page 17.)

[12] [DISPLAY] Button
Press this to turn the display on and off.

REMOTE CONTROL UNIT RC-7CD

[3] [▶PLAY] button

[4] [■STOP] button

[5] [IIPAUSE] button

[6] [I◀◀], [▶▶I] (Track Previous/Next) buttons

[9] [▲OPEN/CLOSE] button

[10] [FILTER] button

[11] [NOISE SHPER] Button

[12] [DISPLAY] Button
The above buttons function in the same way as the corresponding buttons on the front panel.
Refer to the "FRONT PANEL" section.

[13] CD button (CD)
Press to enter the CD mode. (see page 10.)

[14], [15] DIGITAl 1, 2 button (DIGITAL 1) , (DIGITAL 2)
Press these buttons to use the CD-7 in the D/A mode. (See page 16.)
When pressed, the following is selected:
DIGITAL 1 DIGITAL INPUT 1
The signals (OPTICAL or COAXIAL) selected with the selector switch on the rear panel are input.
DIGITAL 2 DIGITAL INPUT 2 COAXIAL

16 TIME button (TIME)
Switches the time shown on the display to the remaining time of the current track (REM) or the remaining time of the entire disc (TOTAL REM).

17 REPEAT button (REPEAT)
Press to select 1-track repeat, all-track repeat or program repeat playback mode.

18 CANCEL button (CANCEL)
Used to delete specified track numbers from a program.
Also used when creating programs by deleting any tracks which you do not want to listen to (delete programming). (see pages 14, 15.)

19 A-B button (A-B)
Press when setting continuous loop playback. (see page 13.)

20 AMS (Automatic Music Scan) button (AMS)
When this button is pressed, the player automatically plays the first part of each track on the disc for 10 seconds.

21 RECALL button (RECALL)
Pressing this button displays the programmed track numbers and program numbers (steps) in sequence.

22 PROG button (PROG)
Press to activate program play, so that only the selected tracks from the disc loaded on the disc tray will be played.

23 Numeric (0 to 9) buttons (0) ~ (9)
When used during playback, these buttons allow you to specify the number of another track you want to play.
When used during stop mode, these buttons allow you to specify the number of a track from which to start playback.
These buttons are also used to select tracks for programming.

24 INDEX buttons (⏭) (⏮)
⏭ : Press during playback to advance to the next index.
⏮ : Press during playback to return to the previous index.
* These buttons are valid when playing a disc in which index have been recorded.

25 Search buttons (▶▶), (◀◀)
▶▶ : When pressed during playback, this button fast-forwards the play position.
◀◀ : When pressed during playback, this button fast-reverses the play position.

26 RANDOM/SHUFFLE button (RANDOM/SHUFFLE)
When this button is pressed, the player enters random play mode (tracks on the disc are selected and played in a random order). When pressed again, random play is cancelled.

REAR PANEL
* Also refer to "Connections" on page 7.

Ⓐ ANALOG OUTPUT jacks (Unbalanced jack)
Connect to the CD or AUX input jacks of a preamplifier.

Connection method:
Connect to the CD or AUX input jacks of the amplifier. Be sure to connect the red jack to the R (right) input jack and the white jack to the L (left) input jack.
* Never connect these jacks to the PHONO input jacks of the amplifier.

Ⓑ ANALOG OUTPUT jacks (Balanced jack)
Connect to the CD or AUX input jacks of a preamplifier.
Connection method:
Connect to a component equipped with balanced input connector.

Ⓒ DIGITAL INPUT 1 OPTICAL/COAXIAL jack
To use the CD-7 as a D/A converter, press the 14 DIGITAL 1 button on the remote control unit to select this jack, connect a recorder or tuner equipped with a digital output jack using a commercially available optical or coaxial cable, and select "OPTICAL" or "COAXIAL" using the center switch. (See page 16.)

Ⓓ DIGITAL INPUT 2 OCOAXIAL jack
To use the CD-7 as a D/A converter, press the 15 DIGITAL 2 button on the remote control unit to select this jack, then connect a device equipped with a coaxial digital output jack using a commercially available coaxial cable. (See page 16.)

Ⓔ DIGITAL OUTPUT COAXIAL 1/2 jacks
Connect to a digital audio component such as a D/A converter, digital amplifier, MD recorder or DCC recorder.
Connect an RCA-type pin cord between the COAXIAL output jack of this unit and the coaxial input jack of the connected component. (See page 16.)

Ⓕ DIGITAL OUTPUT OPTICAL connector
This connector allows to output digital signals using an optical fiber cable and photocoupler. The optical signal transmission features low signal loss due to the cable and complete insulation of the ground loop so it can reproduce sound with very high quality without any digital noise.

Connection method:
Connect this connector to a digital component such as a D/A converter, digital amplifier, MD recorder or DCC recorder. Remove the caps from the OPTICAL connector of the unit as well as from the optical input connector of the connected component and connect them through an optical fiber cable. (See page 16.)
* Be careful not to bend the optical fiber cable.
* Be sure to attach the connector caps when the OPTICAL connectors are not used.

Ⓖ BIT SELECTOR switch
Select the digital input signal's bit number (16 or 20) according to the device connected to C or D. (See page 16.)

Ⓗ Shipping screw holders
Attach the shipping screws (used to protect the CD drive mechanism during shipping) to these holders so as not to lose them. (See page 6.)

Ⓘ AC POWER SOURCE CONNECTION
With the POWER switch set to the OFF position, plug the mains lead into a mains outlet providing the right voltage.

English

■ The CD-7 can be operated either in the CD mode or D/A mode.

The CD and D/A modes can be switched over from the provided remote control unit.

CD mode:
The CD-7 operates as an ordinary CD player. The Digital Input block is defeated in this mode.

D/A mode:
The CD-7 reproduces the (32/44.1/48) kHz digital signal in compliance with the digital audio interface format using the built-in D/A converter.

The CD block is defeated in this mode.
(The unit enters the CD mode by default after the POWER switch is pressed to ON.)

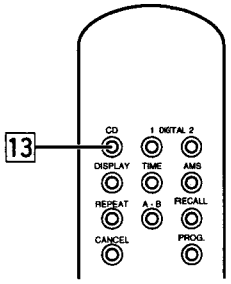
* Some of the functions described in this manual are available only from the remote commander. Therefore, in the description of buttons, the names of the buttons which can provide the same functions on the main unit and remote commander are enclosed inside ▭ while those of the buttons which can be used only on the remote commander are enclosed inside ⬭.

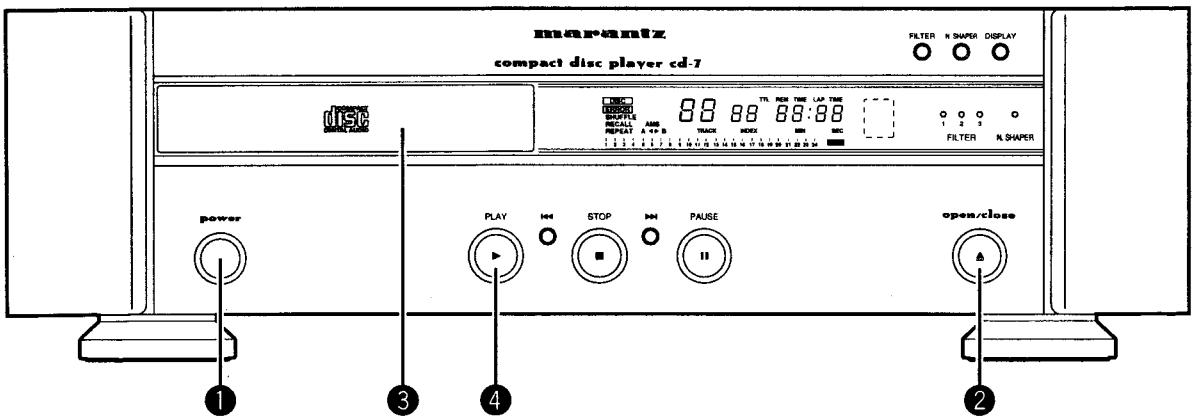
NORMAL PLAYBACK OPERATION

■ CD player playback

1. If the unit is not in the CD mode, press the CD button [13] of the provided remote control to enter the CD mode.
2. Perform operations following the CD player operation procedure.

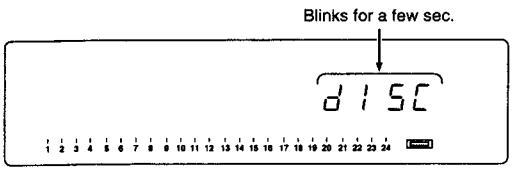
NOTE
Be sure to remove the shipping screws before using. (See page 6.)





❶ Press the power switch to turn on the power.

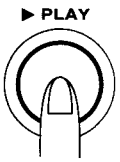
Display indications



❷ Press the ▲OPEN/CLOSE button.
When the disc tray opens, place a disc on the tray with the label side up.

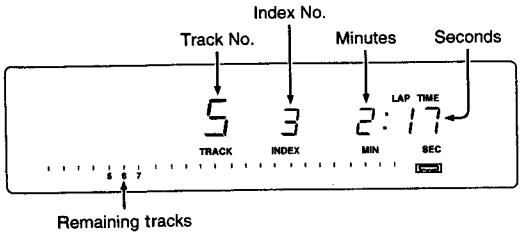
❸ Press the ▲OPEN/CLOSE button to close the tray.

❹ Press the ▶PLAY button.



The Compact Disc starts to play.
As tracks are played, the display shows their track number and the index numbers.
It also shows the elapsed play time of each track in minutes and seconds.

(Example of display during playback of index No. 3 of track No. 5, at 2 minutes 17 seconds from the beginning)



When the last track has finished playing, the CD player stops automatically.

To start playback again from the first track:
Press the ▶PLAY button.

To stop playback:
Press the ■STOP button.

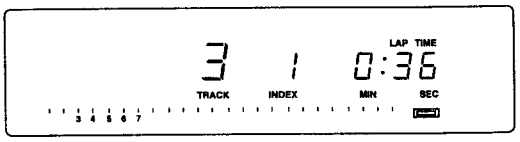
To remove the disc:
Open the disc tray by pressing the ▲OPEN/CLOSE button, remove the disc, then close the disc tray by pressing the ▲OPEN/CLOSE button again. Always keep the disc tray closed even when the CD player is not being used.

To pause playback:
Press the ❚❚PAUSE button.
The time display flash up and playback pauses at the position where the button was pressed. To resume playback from the pause position, press the ❚❚PAUSE button again.

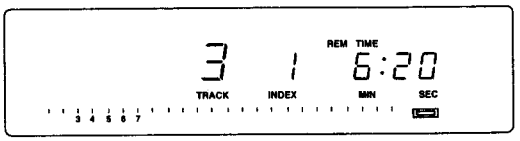
To switch the time display:
Press the (TIME) button.
Each time the (TIME) button is pressed, the time display changes in the following order: elapsed playing time of current track → REM → TOTAL REM → elapsed playing time of current track.

Display examples

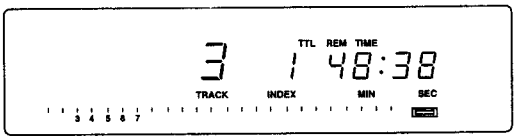
- Elapsed playing time of the current track



- REM (remaining playing time of the current track)



- TOTAL REM (total remaining playing time of the entire disc)



Scanning (locating a desired passage)

To find a passage located after the current position:
Press the (▶▶) button.

To find a passage located before the current position:
Press the (◀◀) button.
Normal playback resumes from the position where the button is released.

- When one of these buttons is pressed, scanning is first carried out at slow speed and sound is heard for about 4 seconds. After that, scanning is carried out at high speed.

  No sound is output during the high speed mode.

English

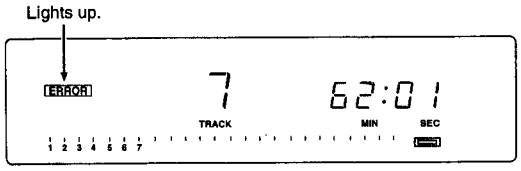
SEARCHING/SKIPPING

Direct search (specifying a desired track number)

Specify the track number using numeric buttons 0 to 9.
For track number ③, press .
For track number 12, press ①, then, within 1.5 seconds, press ②.
If the first of two digits pressed is not one of the digits on the CD, it is interpreted as 1 digit and the search will start after about 0.5 second.

If you make a mistake when pressing the numeric buttons:
Press the right buttons to enter the correct track number.

- If you specify a track number which does not exist on the disc, "Error" will appear on the display. Enter the correct number.



Track Skip

Next (skipping to a desired track located after the track currently playing)

Press the ▶▶| button the necessary number of times to skip to the desired track.

Previous (skipping to a desired track located before the track currently playing)

Press the |◀◀ button once during playback to return to the beginning of that track.
Press the |◀◀ button again to move back by a number of tracks equal to the number of times the button is pressed.

- Pressing the |◀◀ button in the middle of the first track in the disc skips to the last track, and pressing the ▶▶| button in the middle of the last track skips to the first track.

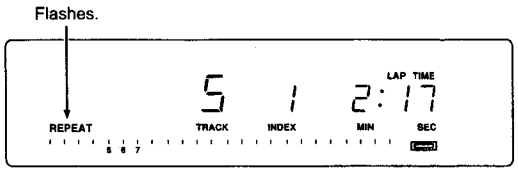
Index Skip (◢▬ ▬◣)

This is a conventient function which allows to search the desired index during playback of a track with indexes recorded in it (see the description of the INDEX buttons on page 9).

REPEAT PLAY

1-track repeat (repeated playback of one track only)

While the track you want to repeat is playing, press the button twice.

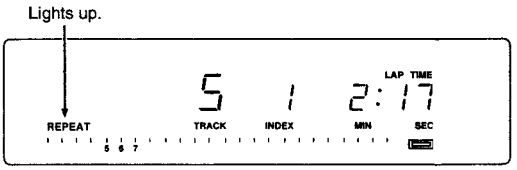


The "REPEAT" indicator flashes and the current track will be played repeatedly.

To cancel 1-track repeat play:
Press the button once.

All-track repeat (repeated playback of all tracks on the disc)

During playback, press the button once.



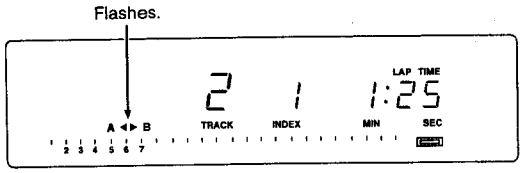
The "REPEAT" indicator lights up and all the tracks on the disc are played repeatedly.
Even if the (REPEAT) button is pressed in stop mode, playback will start and repeat playback will be carried out.
To resume normal playback:
Press the (REPEAT) button twice. The "REPEAT" indicator goes out, repeat mode is cancelled and normal playback resumes.

A-B repeat
(repeat playback of a specified passage)

❶ Start playback according to "Normal playback".

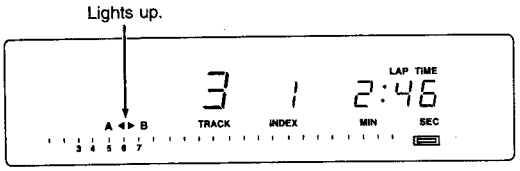
❷ When the playback reaches the point where you want to repeat, press the (A-B) button.
The A ◀ ▶ B indicator starts to flash.

(Example : Display when 1 min. 25 sec. of track No. 2 is set as the start point (point A))



❸ At the point where you want to end continuous loop play (point B), press the (A-B) button again.

(Example : Display when 2 minutes 46 seconds of track No. 3 is set as the end point (point B))



The above procedure can be simplified by using the (▶▶), [▶▶|] buttons.

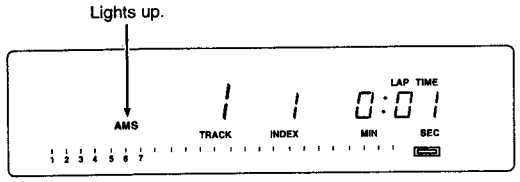
❹ To cancel the continuous loop play, press the (A-B) button again.

The A ◀ ▶ B indicator turns off and normal playback starts.

* The A-B repeat mode cannot be set during random playback.

AMS
(Listening to the first part of each track)

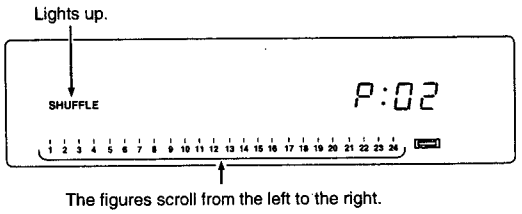
1. Press the (AMS) button.
The first part (first 10 seconds) of each track on the disc will be played in the order in which they are recorded.



2. When you find a track you want to listen to, press the (AMS) button again.
If the [|◀◀] or [▶▶|] button is pressed during AMS search, the CD player increase or decrease the played track number the same number of times as the button was pressed, but AMS search is not cancelled.

RANDOM PLAY

In this mode, the CD player automatically selects and plays tracks in random order. All tracks are played once.
Press the (RANDOM/SHUFFLE) button.



Random playback begins in about 4 seconds.

- During random playback, tracks are separated by an interval of about 4 seconds.
- The (RANDOM/SHUFFLE) button can be pressed either during playback or in stop mode.

If the (RANDOM/SHUFFLE) button is pressed while the disc tray is open with a disc on the tray, the disc tray automatically closes and random playback begins.

- To stop random playback and resume normal playback:
  Press the (RANDOM/SHUFFLE) button again.
- If the [▶▶|] button is pressed during random playback:
  Each time one of these buttons is pressed, the CD player selects a track at random and starts playing that track.
- If the (◀◀) or (▶▶) button is pressed during random playback:
  Searching is carried out within the current track. The search operation will not cross over into the previous or next track.
- To repeatedly play tracks at random:
  Press the (REPEAT) button once. All tracks are repeatedly played in random order, with the order being changed each time the disc is played.

Delete random playback

With this function you can play tracks in random order while skipping unwanted tracks.

❶ Program tracks according to the "delete programming" procedure in section "PROGRAM PLAY" (page 14).

❷ When programming is completed, press the (RANDOM/SHUFFLE) button. All tracks other than the deleted tracks are played in random order.

- If the (REPEAT) button is pressed twice, the currently playing track will be played repeatedly. (Since the program is stored in the memory, when 1-track repeat or program repeat is cancelled, delete random playback will still continue.)
- If the (REPEAT) button is pressed once, all tracks in the delete program will be played repeatedly. (The order changes each time the program is played.)

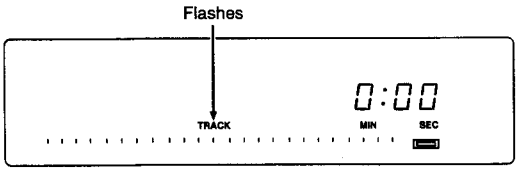
English

PROGRAM PLAY

Programming (To play the desired tracks in a certain order)

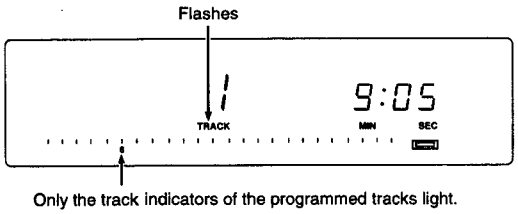
(Example: To program track number 6 first, then track number 14 on a 14-track disc)

❶ Press the (PROG) button in stop mode. The TRACK indicator flashes.



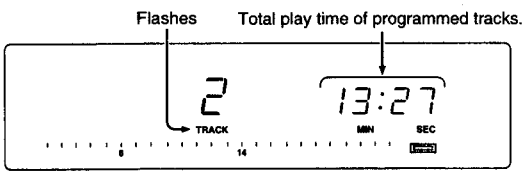
❷ Specify the first track to be programmed using the numeric buttons or the ▶▶| or |◀◀ button.

(Display example: The first programmed track is track number 6 with a playing time of 9 minutes 5 seconds)



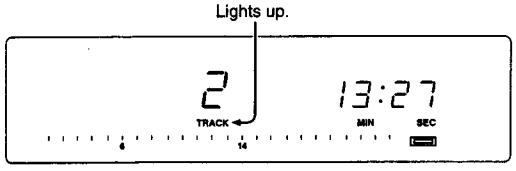
❸ Then program another track by repeating the procedure in step ❷ above.

(Display example: The second programmed track is track number 14 and the total playing time of track numbers 6 and 14 is 13 minutes 27 seconds)



❹ After having programmed all the desired tracks, press the (PROG) button or ■STOP button.

The TRACK indicator status changes from flashing to continuously lit, indicating that the program is completed.



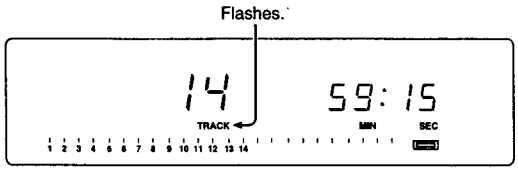
❺ Press the ▶PLAY button, The programmed tracks will be played in the programmed order.

Delete programming (Listening only to the desired tracks by omit-ting unwanted tracks)

(Example: To program the tracks on a 14-track disc with the exception of track numbers 3 and 7)

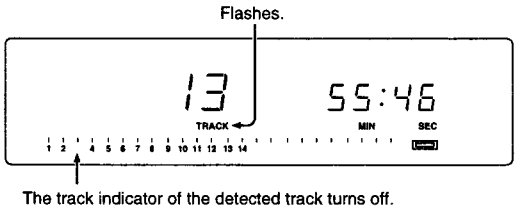
❶ Press the (PROG) button in stop mode and, when the TRACK indicator starts to flash, press the (CANCEL) button. The total number of tracks and total playing time of the disc will be displayed.

(Display example : The total playing time is 59 minutes 15 seconds)



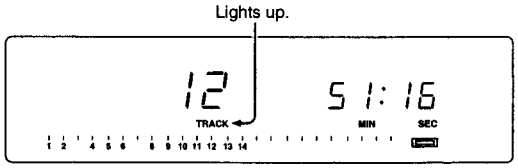
❷ Select the unwanted tracks using the numeric buttons or the ▶▶| or |◀◀ button.

(Display example: Track number 3 is selected first and the total playing time of 13 tracks becomes 55 minutes 46 seconds)



❸ After having selected and deleted all of the unwanted tracks, press the (PROG) button or ■STOP button.
The TRACK indicator status changes from flashing to continuously lit, indicating that the program is completed.

(Display example: The total playing time of the 12 tracks, omitting track numbers 3 and 7, is 51 minutes 16 seconds)



❹ Press the ▶PLAY button, The tracks except for the deleted tracks will be played in the order of the track numbers.

NOTE

Take note of the following points when programming tracks by programming or delete programming.

* When selecting track numbers 1 to 9 using numeric buttons from a disc containing 10 or more tracks (when selecting track number 3 after track number 2, for example), press 3 more than 1.5 seconds after pressing 2.
* When using numeric buttons to select track number 10 or higher on a disc containing 10 or more tracks (for example when selecting track number 13), press 3 within 1.5 seconds of pressing 1.
* When using numeric buttons to select track numbers on a disc containing no more than 9 tracks (when selecting track number 5 after track number 4, for example), press 5 more than about 0.5 second after pressing 4.
* When programming track numbers using the [▶▶|] and [|◀◀] buttons, press buttons with intervals of less than 1 second.

To check the programmed contents:
Press the (RECALL) button during programming or program playback. If it is pressed during "programming", the programmed track numbers will be displayed sequentially in the order they have been programmed. If it is pressed during "delete programming", the deleted track numbers will be displayed.

To erase some of the programmed tracks:

❶ Press the (RECALL) button to display the programmed track numbers sequentially in the order in which they have been programmed.

❷ When the track number to be erased from the program is displayed, press the (CANCEL) button immediately.
The track number indicator of the track erased from the program goes out.

To re-incorporate in the program a track which has been deleted in "delete programming":

❶ Press the (RECALL) button during delete programming to display the deleted track numbers sequentially in the order in which they were deleted.

❷ When the track number to be added to the program is displayed, press the (CANCEL) button immediately.
The track number indicator of the track added to teh program lights up.

To add tracks to the program:
In stop mode with the program stored in the memory (that is, with the TRACK indicator lit up), press the (PROG) button. The TRACK indicator starts flashing and more tracks can be added to the program.

To erase the entire program:
During program playback, press the [■STOP] button twice. In stop mode, press [■STOP] the button once.

- The program is also erased by pressing the [▲OPEN/CLOSE] button to open the disc tray.

Q&A

- **How many tracks is it possible to program?**
  Up to 30 tracks can be included in the program. With delete programming, up to 30 tracks can be omitted from the program.
- **Is it possible to change from programming to delete programming or vice versa?**
  No.
- **How do you play programmed tracks repeatedly?**
  Press the (REPEAT) button once. The REPEAT indicator lights up and the program playback will be repeated.
- **How do you play programmed tracks in a random order?**
  Press the (RANDOM/SHUFFLE) button during program playback or in stop mode.

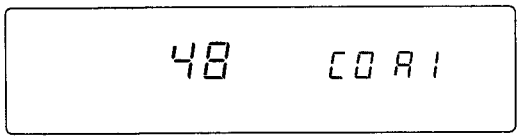
English

USING THE CD-7 AS A D/A CONVERTER

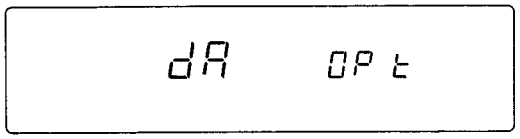
❶ Check that the digital output device whose signal you want to play is connected to either or both of the DIGITAL INPUT 1 or 2 jacks on the CD-7's rear panel and output signals from the device.

❷ Use the [14] DIGITAL 1 or [15] DIGITAL 2 button on the remote control unit to select the jack to which the signal you want to play are connected and set the D/A mode.

❸ The input digital signals are converted to analog signals during playback.
In the D/A mode, the input signal's sampling frequency (32, 44 or 48 kHz) is displayed in the track section of the time display and the input jack's name ("COA1" or "COA2" for COAXIAL, "OPt" for OPTICAL) is displayed in the seconds' section.



* "dA" is displayed for the sampling frequency if no signals are being input.



* The input signal sampling frequencies supported by the CD-7 are 32, 44.1, and 48 kHz. 96 kHz is not supported.
See the instruction manual of the connected device for information on the input signal sampling frequency.

BIT SELECTOR

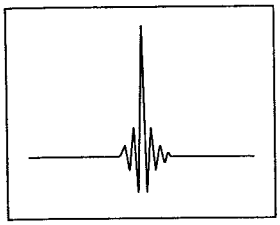
The CD-7 contains a 16-bit D/A converter. When the CD-7 is used as a D/A converter, an audio device with a digital output is connected and these devices usually output 16-bit signals. Therefore, the Bit Selector default setting is 16 bits.
Normal audio playback is usually possible when a device with a 20-bit output digital signal is connected to the CD-7. If the Bit Selector is set to 20 bits in this case, the 20-bit signal is optimally converted to a 16-bit signal to minimize losses during playback. (To adjust the Bit Selector, loosen the screw and remove the stopper before moving the switch.)
Conversely, if a 16-bit digital signal is input when the Bit Selector is set to 20 bits, normal playback occurs but unnecessary signals are converted. Set the Bit Selector to 16 bits for the most faithful playback of the original signal.

* The CD-7 is compatible with 16-, 18-, 20-, and 24-bit input signals. Audio playback of 18- and 24 bit signals is possible, although optimal conversion cannot be achieved due to conversion errors.
See the instruction manual of the connected device for information on the number of bits in the input signal.

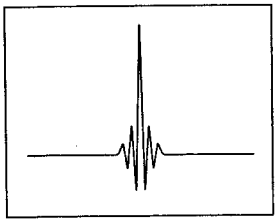
DIGITAL FILTER

With the CD-7 it is possible to select the filter properties (coefficient) for playback.
The filter properties recreate the sense of presence, mood, sense of speed or at times the special charm of the playback source (vocals, orchestra, pops, etc.). By changing the filter properties you can also create a pleasing sound suited to your listening room.

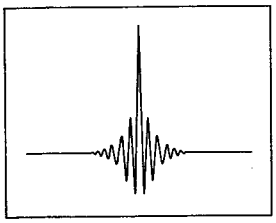
① FILTER-1
For playing music with smooth depth, such as analog records.



② FILTER-2
A sound between FILTER-1 and FILTER-3.



③ FILTER-3
A well-balanced, standard sound for all sources.



Changing the Filter Type
FILTER-1 is selected automatically when the power is turned on.

- Press the FILTER button to switch to FILTER-2, again to switch to FILTER-3, and a third time to switch back to FILTER-1.

NOISE SHAPER

With the CD-7, CDs can be played with the noise shaper turned either on or off.
The noise shaper is a digital feedback system.
Digital feedback improves low level (-70 to 90 dB) linearity and noise in the audible range.
There are various types of feedback. Generally speaking, for amplifiers no feedback results in poorer response but better sound.
With the CD-7 this can be checked by turning the noise shaper on and off.
As with the filter settings, which setting is better depends on the source.
The noise shaper is automatically turned off when the power is turned on.

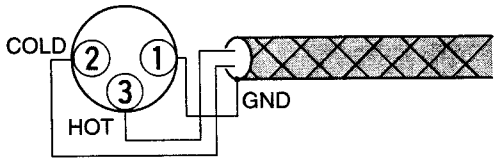
- The noise shaper is turned on and off each time the button is pressed.

ABOUT BALANCED JACKS

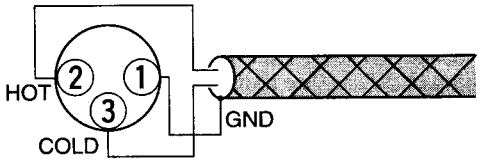
① The balanced output connector uses a XLR connector.

② The XLR connector for professional use is internally wired in either of the following two systems.

1. USA system (Pin 2 = COLD, Pin 3 = HOT)



2. European system (Pin 2 = HOT, Pin 3 = COLD)



③ The CD-7 uses the USA system of 1.

When a preamp or main amplifier adopting the European system is connected using a cable with XLR balanced connectors, the reproduced signal may be inverted of phase.
In this case, correct the wiring of the one of the XLR connectors on the extremities of the cable to the USA system by exchanging the connections of pins 2 and 3. This will make it possible to play the signal with the correct phase.

TROUBLE SHOOTING

If you think a malfunction has occurred, first check the points listed below, The problem is likely to have been caused by a simple operational error or a connection problem. If the problem cannot be corrected even after carrying out the following checks, consult your dealer or nearest Marantz sales office or service counter.

- **The disc fails to rotate.**

1. Is the mains lead plugged in properly?
2. Is the POWER switch ON?
3. Is the disc placed in the correct position on the disc tray?
4. Is the disc placed properly with the label side facing up?
5. Is the disc dirty?
6. Is the disc scratched?
7. Is the disc warped?

- **The disc is rotating but no sound is heard.**

1. Are the amplifier and speakers connected properly?
2. Is the amplifier switch ON?
3. Is the amplifier's volume control set at the minimum level?
4. Is the amplifier's selector switch set to the correct input ("CD" or "AUX", whichever corresponds to the input jacks the CD player is connected to)?

- **The disc stops in mid-operation.**

1. Is the disc dirty?
2. Is the disc scratched?
3. Is the disc warped?

- **The sound drops out or noise is heard.**

1. Is the disc dirty?
2. Is the disc scratched?
3. Is the disc warped?

- **Remote control operation is not possible.**

1. Is the remote control unit's transmitter pointed correctly at the remote sensor on the front of the CD player?

   Or is there an obstruction between the transmitter and the remote sensor?
2. Are the batteries in the remote control unit exhausted?
3. Is there another strong light (from a window, etc.) striking the CD player's remote sensor?

- **A CD-R/CD-RW disc cannot be played.**

1. Is the disc placed upside down?
2. Is the disc contains properly written TOC?

OPERATING PRECAUTIONS

- In the winter you may notice that condensation forms on the window of a well-heated room.

  Condensation may also occur inside the CD player in the following situations:

- When the listening room is first heated.
- When the humidity in the room is high.
- When the unit is moved from a cold environment to a warm room.

- If condensation occurs, the number of tracks cannot be read and the CD player may not function properly. If this happens, leave the power ON and wait for about 30 minutes before operating the unit.
- The CD player may interfere with the reception of your tuner or TV set. If this occurs, place the CD player farther away from the tuner or TV.
- The CD player features very little noise compared to analog records, and the noise before actual playback begins is almost inaudible. Therefore, be careful not to set the volume control of the amplifier too high, otherwise other audio components such as the speakers may be damaged when actual playback starts.

CLEANING OF EXTERIOR SURFACES

With proper care and cleaning, the exterior finish of your equipment will last indefinitely. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g. lye solution), alcohol, thinners,benzine, insecticide or other volatile substances, as these will mar the finish of the cabinet. Likewise, never use cloths containing chemical substances. If the equipment becomes dirty, wipe the external surfaces with a soft, lint-free cloth.

If the cabinet becomes heavily soiled:

- dilute some washing-up liquid in water, in a ratio of one part detergent to six parts water;
- dip a soft, lint-free cloth in the solution and wring the cloth out until it is damp;
- wipe the equipment with the damp cloth;
- dry the equipment by wiping it with a dry cloth.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the equipment. The Marantz company and its factory-trained warranty station personnel have the knowledge and special facilities needed for the repair and calibration of this precision equipment. After the warranty period has expired, repairs will be performed for a charge if the equipment can be restored to normal operation.
In the event of difficulty, consult your dealer or write directly to the nearest location to you that is listed on the Marantz Authorized Service Station list. Please quote the model and serial number of the equipment and give a full description of what you think is abnormal about the equipment's behaviour.

MODEL CD-7 TECHNICAL SPECIFICATIONS

Audio Characteristics

Channels	2 channels
Sampling frequency (DA mode)	32/44.1/48 kHz
Sampling frequency (CD mode)	44.1 kHz
Error correction	Cross-interleave read solomon code (CIRC)
D/A conversion	16-bit linear/channel
Wow & flutter	Precision of quartz

Optical Readout System

Laser	GaAlAs semiconductor
Wavelength	780 nm

Frequency Characteristics (Filter 3)

Frequency range	20Hz-20kHz
Dynamic range	> 98 dB
S/N ratio (WTD)	> 102 dB
Channel separation (1 kHz)	>100 dB
THD (1 kHz)	0.002 %
Analog output	
Output level (cinch JACKS)	2.2 V RMS
Output level (balanced)	3.8 V RMS
Output impededance	250 ohms
Digital output	
output level (cinch JACK)	0.5 Vp-p/75 ohms
output level (optical)	-19 dBm

Power Supply

/02 version	230 V AC 50 Hz
Power Consumption	25 W

Cabinet, etc.

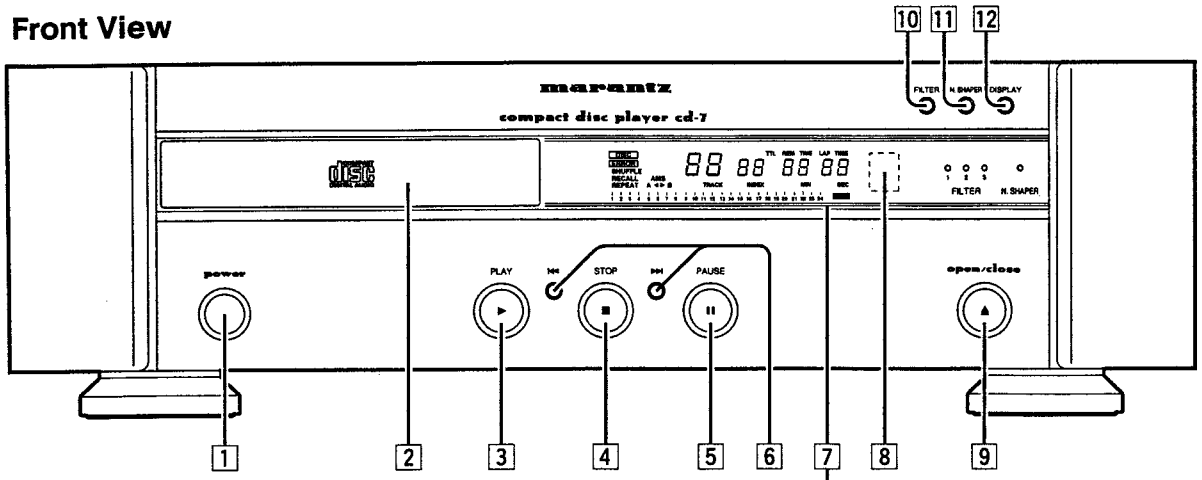
Dimensions	
Width	454 mm
Height	139 mm
Depth	344 mm
Net weight	16.6 kg
Operating temperatures	+5 °C ~ +35 °C
Operating humidity	5 % ~ 90 % (without dew)

Accessories

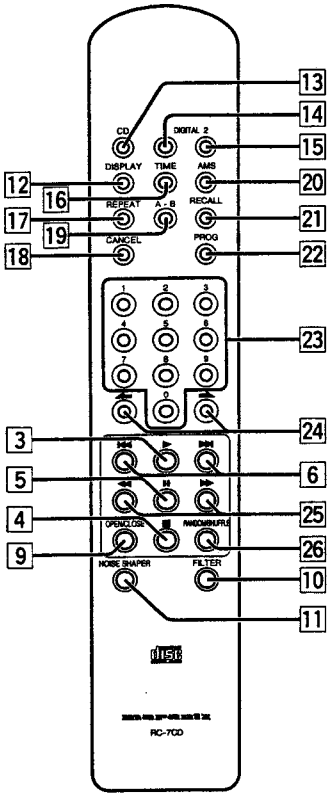
Remote control unit (RC-7CD)	1
AAA (R03) Batteries	2
Stereo audio cable with cinch pins	1 pair
AC Power Cord	1

Specifications subject to change without prior notice.

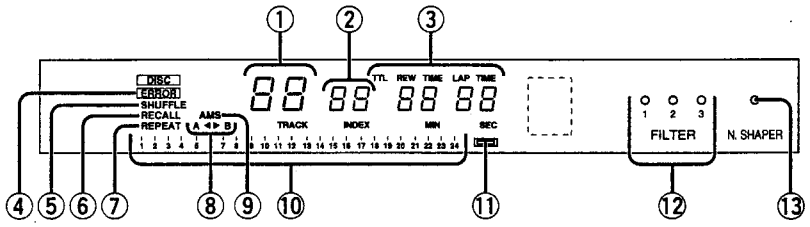
Front View



Remote Control Unit(RC-7CD)



Display



① TRACK indicator
② INDEX indicator
③ TIME indicator
④ ERROR indicator
⑤ SHUFFLE indicator
⑥ RECALL indicator
⑦ REPEAT indicator
⑧ A-B indicator
⑨ AMS indicator
⑩ TRACK NUMBER indicator
⑪ REMOTE SENSOR
⑫ FILTER indicator
⑬ NOISE SHAPER indicator

Rear View